

### *What Is Claimed Is:*

distributing the test aliquot into a separation medium;

separation medium;

from each fragment; and

analyzing said intensity values to determine a catalytic result.

2. A method according to claim 1, wherein said distributing step comprises the step of:

distributing the test aliquot among a plurality of reaction wells within the separation medium, wherein said analyzing step comprises placing said intensity values into intensity profiles, each intensity profile representing fragments from a corresponding reaction well.

3. A method according to claim 2, further comprising the steps of:  
removing an intensity value lying outside of a prescribed range;  
and

refitting said intensity profiles in response to said removing step.

4. A method according to claim 1, further comprising the step of:  
calculating intensity ratios, wherein each intensity ratio is derived  
from an intensity value from each of two specified fragments, wherein said  
intensity ratios are used to determine said catalytic result.

5. A method according to claim 1, wherein said catalytic result is derived from an effective dilution factor for predicting complete digestion of a fragment.

6. A method according to claim 1, further comprising the step of:  
determining a unit call for complete digestion of a fragment.

7. A method according to claim 6, further comprising the step of:  
determining a calibration factor for adjusting said catalytic result used to determine said unit call.

8. A method according to claim 1, further comprising the step of:  
staining the test aliquot with a reporter molecule prior to said capturing an image step.

9. A method according to claim 8, wherein the test aliquot is not de-stained prior to said capturing an image step.

10. A method according to claim 1, wherein said processing step comprises the step of:  
performing electrophoretic separation to resolve at least one of DNA fragments and RNA fragments.

11. A method according to claim 1, wherein said distributing step comprises the step of:  
transferring a diluted enzyme concentration to one or more reaction wells within the separation medium to produce the test aliquot, wherein said one or reaction wells contain a DNA substrate.

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24. A computer program product according to claim 19, further comprising:

a fourth computer readable program code means for causing the computer to remove at least one of outliers and faulty intensity data to correct said intensity profiles.

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